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Approved for release through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

PTO/SB/08A (10-01)

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 4

Complete if Known

Application Number 09/772,783
Filing Date 01-30-2001
First Named Inventor A. Mohan Crawford, et al.
Art Unit 2812
Examiner Name Not yet assigned
Attorney Docket Number 42390P10886

U.S. PATENT DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
DMA		US- 3881244	05-06-1975	Kendall	
		US- 5095357	03-10-1992	Andoh et al.	
		US- 5635892	06-03-1997	Ashby et al.	
		US- 5801100	09-01-1998	Lee et al.	
		US- 5877533	03-02-1999	Arai et al.	
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FOREIGN PATENT DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
DMA		EP 0 725 407 - A1	08-07-1996	IBM Corporation		
		WO 01/39220 - A1	05-31-2001	Intel Corporation		
		JP 07-272932	10-20-1995	Canon Inc.		

Examiner
Signature

Kathy Parker

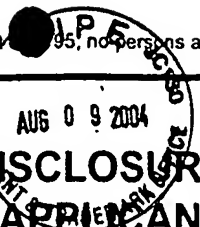
Date
Considered

02-02-05

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Substitute for form 1449B/PTO		AUG 09 2004		Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number		09/772,783		
		Filing Date		01-30-2001		
		First Named Inventor		A. Mohan Crawford, et al.		
		Group Art Unit		2812		
		Examiner Name		Not yet assigned		
Sheet	2	of	4	Attorney Docket Number		42390P10886

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
OK		K. SHIRAKAWA, ET AL., "Thin Film Cloth-Structured Inductor For Magnetic Integrated Circuit," IEEE Transactions on Magnetics, September 1990, pp. 2262-2264, Vol. 26, No. 5.	
		M. YAMAGUCHI, ET AL., "Characteristics Of Magnetic Thin-Film Inductors At Large Magnetic Field," IEEE Transactions on Magnetics, November 1995, pp. 4229-4231, Vol. 31, No. 6.	
		E. BRANDON, ET AL., "Microinductors For Spacecraft Power Electronics," Magnetic Materials, Processes, and Devices VI Applications to Storage and Microelectromechanical Systems (MEMS), 2001, pp. 559-567, Vol. 2000-29, The Electrochemical Society, Inc., Pennington, New Jersey.	
		ERIK J. BRANDON, "Passive Components For Systems-On-A-Chip Applications," Center for Integrated Space Microsystems, Jet Propulsion Laboratory.	
		S.S. MOHAN, ET AL., "Simple Accurate Expressions For Planar Spiral Inductances," IEEE Journal of Solid-State Circuits, October 1999, pp. 1419-1424, Vol. 34, No. 10.	
		JOACHIM N. BURGHARTZ, "Integrated Multilayer RF Passives in Silicon Technology," IBM Research Division, Yorktown Heights, NY.	
		JAE YEONG PARK, ET AL., "Batch-Fabricated Microinductors With Electroplated Magnetically Anisotropic and Laminated Alloy Cores," IEEE Transactions on Magnetics, September 1999, pp. 4291-4300, Vol. 35, No. 5.	
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		DONALD S. GARDNER and PAUL A. FLINN, "Mechanical Stress As A Function Of Temperature For Aluminum Alloy Films," Journal of Applied Physics, February 15, 1990, pp. 1831-1845, Vol. 67.	
		M. BABA, ET AL., "GHz-Drive Magnetic Thin-Film Inductor Using CoNbZr Film," Journal of the Magnetics Society of Japan, 2000.	

Examiner Signature	<i>Kang Nishie</i>	Date Considered	02-02-05
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		Group Art Unit	2812
		Examiner Name	Not yet assigned
		Attorney Docket Number	42390P10886
Sheet	3	of	4

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
DNK		Y. KOBAYASHI, ET AL., "New Type Micro Cloth-Inductor And Transformer With Thin Amorphous Wires And Multi-Thin Coils," IEEE Transactions on Magnetics, September 1992, pp. 3012-3014, Vol. 28, No. 5.	
		H. MATSUKI and K. MURAKAMI, "A New Cloth Inductor Using Amorphous Fiber," IEEE Transactions on Magnetics, September 1985, pp. 1738-1740, Vol. MAG-21, No. 5.	
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		T. SATO, ET AL., "New Applications of Nanocrystalline Fe(Co-Fe)-Hf-O Magnetic Films To Micromagnetic Devices," Journal of Applied Physics, June 1, 1998, pp. 6658-6660, Vol. 83, No. 11.	
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		S. YABUKAMI, ET AL., "Noise Analysis Of A MHz-3 GHz Magnetic Thin Film Permeance Meter," Journal of Applied Physics, April 15, 1999, pp. 5148-5150, Vol. 85, No. 8.	
		JAE PARK and MARK G. ALLEN, "Bar-Type Microinductors and Microtransformers With Electroplated Alloy Cores," Magnetic Devices Research, sponsored by Packaging Research Center.	

Examiner Signature	<i>Kang Nishan</i>	Date Considered	02-02-05
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		Filing Date	01-30-2001
		First Named Inventor	A. Mohan Crawford, et al.
		Group Art Unit	2812
		Examiner Name	Not yet assigned
		Attorney Docket Number	42390P10886
Sheet	4	of	4

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DNW		ERIK BRANDON, "System On A Chip Integrated Passive Components (μ IRS)"	
		MASAHIRO YAMAGUCHI, "Magnetic Films For Planar Inductive Components And Devices," Handbook of Thin Film Devices, edited by M.H. Francombe, 2000, pp. 185-186, Vol. 4: Magnetic Thin Film Devices.	
		S.S. MOHAN, ET AL., "Bandwidth Extension In CMOS With Optimized On-Chip Inductors," IEEE Journal of Solid-State Circuits, March 2000, pp. 346-355, Vol. 35, No. 3.	
		S.S. MOHAN, ET AL., "Modeling And Characterization Of On-Chip Transformers," Center for Integrated Systems, Stanford University, Stanford, CA 94305.	
		M.M. MOJARRADI, ET AL., "Power Management And Distribution For System On A Chip For Space Applications," Jet Propulsion Laboratory, California Institute of Technology, under a contract with the National Aeronautics and Space Administration, Paper No. 284.	
		TERENCE O'DONNELL, ET AL., "Microtransformers and Inductors Using Permalloy Thin Films," Preparation, Properties, and Applications of Thin Ferromagnetic Films, June 2000, pp. 45-52.	
		C. PATRICK YUE and S. SIMON WONG, "On-Chip Spiral Inductors With Patterned Ground Shields For Si-Based RF IC's," IEEE Journal of Solid-State Circuits, May 1998, pp. 743-752, Vol. 33, No. 5.	
		DONALD S. GARDNER, United States Patent Application for "Method and Apparatus for Providing Inductor for Integrated Circuit or Integrated Circuit Package".	

Examiner Signature	<i>[Signature]</i>	Date Considered	02-02-05
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number 09/772,783
Filing Date 01-30-2001
First Named Inventor A. Mohan Crawford, et al.
Art Unit 2823
Examiner Name Estrada, Michelle
Attorney Docket Number 42390P10886

U.S. PATENT DOCUMENTS

Examiner Initials ⁵	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
nm		US- 5047296	09-10-1991	Miltenberger et al.	
nm		US- 5961746	10-05-1999	Nepela	
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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
nm		EP 0 884 783 - A2	12-16-1998	Lucent Technologies Inc.		
		EP 0 295 028 A1	12-14-1988	Scientific Generics Ltd		
		DE 41 17 878 A1	12-12-1991	Toshiba Kawasaki KK		
		JP 61 020311 A	01-29-1986	Nippon Denshin Denwa		
		PCT/ US 02/01555 Search Report	mailed 10-15-2002			

Examiner
Signature

K. M. M. M.

Date
Considered

02-02-05

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet	2	of	2
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Application Number	09/772,783
Filing Date	01-30-2001
First Named Inventor	A. Mohan Crawford, et al.
Group Art Unit	2823
Examiner Name	Estrada, Michelle
Attorney Docket Number	42390P10886

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**Examiner
Signature**

Longbridge

Date _____

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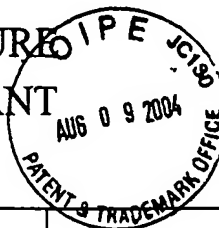
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Substitute for Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known Application Number: 09/772,783 Filing Date: January 30, 2001 First Named Inventor: Ankur Mohan Crawford Art Unit: 2823 Examiner Name: Estrada, Michelle Attorney Docket Number: 42390P10886	
Sheet	1	of 2		



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		Number-Kind Code ² (if known)				
2176		US-	5,446,311	08-29-1995	Ewen et al.	
		US-	5,609,946	03-11-1997	Korman et al.	
		US-	5,834,825	11-10-1998	Imai	
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		US-	6,121,852	09-19-2000	Mizoguchi et al.	
		US-	6,166,422	12-26-2000	Qian et al.	
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		US-	6,291,305 B1	09-18-2001	Huang et al.	
		US-	6,404,317 B1	06-11-2002	Mizoguchi et al.	
		US-				

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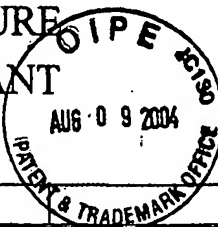
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First Named Inventor:	Ankur Mohan Crawford
Art Unit	2823
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DNU		US-	4,543,553	09-24-1985	Mandai et al.	
		US-	4,791,719	12-20-1988	Kobayashi et al.	
		US-	5,420,558	05-30-1995	Ito et al.	
		US-	5,530,415	06-25-1996	Takaya et al.	
		US-	5,694,030	12-02-1997	Sato et al.	
		US-	5,892,425	04-06-1999	Kuhn et al.	
		US-	5,976,715	11-02-1999	Chen et al.	
		US-	6,031,445	02-29-2000	Marty et al.	
		US-	6,067,002	05-23-2000	Fujino et al.	
		US-	6,441,715 B1	08-27-2002	Johnson	
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DNU		JP	06124843	A	05-06-1994	Nippon Telegr & Teleph Corp.		

Examiner Signature	<i>Carly Parker</i>	Date Considered	02-02-05
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AUG 09 2004

NON PATENT LITERATURE DOCUMENTS

**Examiner
Signature**

Kerry Norton

Date Considered

02-02-05

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS.**
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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

SURETYPE
 AUG 09 2004
 PATENT & TRADEMARK OFFICE

Application Number	09/772,783
Filing Date	January 30, 2001
First Named Inventor:	Ankur Mohan Crawford
Art Unit	2823
Examiner Name	Estrada, Michelle
Attorney Docket Number	42390P10886

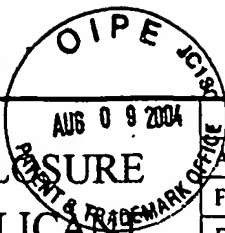
Sheet	1	of 2
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Examiner Signature	<i>Kerry Nether</i>	Date Considered	02-02-05
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Based on Form PTO/SB/08A (08-03) as modified by BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP on 09/10/03.



Substitute for Form 1449/PTO			Complete if Known					
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	09/772,783				
			Filing Date	January 30, 2001				
			First Named Inventor:	Ankur Mohan Crawford				
			Art Unit	2823				
			Examiner Name	Estrada, Michelle				
Sheet	2	of 2	Attorney Docket Number	42390P10886				
NON PATENT LITERATURE DOCUMENTS								
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²					
nmw		ROC (Taiwan) Patent Publication No. 378417 published January 1, 2000.						
		ROC (Taiwan) Patent Publication No. 411481 published November 11, 2000.						
		ROC (Taiwan) Patent Publication No. 386310, published April 1, 2000.						

Examiner Signature		Date Considered	02-02-05
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*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English Translation is attached.
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Substitute for Form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	10/826,245
Filing Date	4/16/2004
First Named Inventor:	Ankur Mohan Crawford
Art Unit	1773
Examiner Name	N/A
Attorney Docket Number	042390.P10886D

Sheet 1 of 1

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (If known)				
om		US-	5,753,391	5/19/1998	Stone, et al.	
nwl		US-	6,344,125 B1	2/5/2002	Locke, et al.	
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FOREIGN PATENT DOCUMENTS

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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				

Examiner Signature	<i>King Parker</i>	Date Considered	02-02-05
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